

DVCS Kinematics													DVCS	9 weeks	
HRS_Acc	6.00E-03	sr												5 Pass	2 days
HRS_ddelta	0.08	(kMax-kMin)/k0												2 Pass	1 week
Calo_A	0.1386	m^2	208-54'	Crystals	3x3 cm^2									4 pass	3 weeks
HMS_Acc	6.00E-03	sr												5 pass	5 weeks
HMS_ddelta	0.16	(kMax-kMin)/k0												2 pass	1 week
Calo_C	0.4096	m^2	34x34-4*33'	Crystals	2x2 cm^2										
DeltaT	0.1	GeV^2							Q1 Limit	1900	Amp		2.5	GeV/c	
nbarn	1.00E-33	cm^2/nb													
Injector	1.23E-01	1.000	0.123	Injector energy scales with linac											
Linac	2.18E+00	GeV	2.180	GeV											
Hall A															
Name	Kin_36_1	Kin_36_2	Kin_36_3	Kin_48_1	Kin_48_2	Kin_48_3	Kin_48_4	Kin_60_1	Kin_60_2	Kin_60_3	Kin_60_4		Pass		
Pass	3	4	5	2	4	4	5	4	4	5	5		Pass		
kBeam (GeV)	6.663	8.843	11.023	4.483	8.843	8.843	11.023	8.843	8.843	11.023	11.023		kBeam		
Q2 (GeV^2)	3.200	4.000	4.745	2.700	4.365	5.334	6.900	5.541	6.100	8.018	9.000		Q2		
xBj	0.360	0.360	0.360	0.480	0.480	0.480	0.480	0.600	0.600	0.600	0.600		xBj		
MProton (GeV)	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938		MProton	HRS-L	
nu (GeV)	4.738	5.923	7.026	2.998	4.847	5.923	7.663	4.923	5.419	7.123	7.996		nu	Window	
kScatt (GeV)	1.925	2.920	3.997	1.485	3.996	2.920	3.360	3.920	3.424	3.900	3.027		kScatt	47.7	
Q1 detune	1.000	0.856	0.625	1.000	0.626	0.856	0.744							deg max	
Q1 Amp	1462.8	1900.0	1900.0	1128.3	1900.0	1900.0	1900.0								
csThe	0.875	0.923	0.946	0.797	0.938	0.897	0.907	0.920	0.899	0.907	0.865		csThe		
epsilon	0.484	0.560	0.613	0.506	0.711	0.548	0.518	0.691	0.618	0.582	0.460		epsilon		
the (deg)	28.926	22.698	18.888	37.140	20.244	26.271	24.925	23.062	25.939	24.942	30.101		the		
snThq	0.184	0.180	0.176	0.262	0.262	0.203	0.175	0.281	0.251	0.215	0.178		snThq		
Thq (deg)	10.592	10.385	10.131	15.198	15.184	11.728	10.069	16.346	14.564	12.388	10.240		Thq		
CaloSetting (deg)	10.592	10.385	10.131	15.198	15.184	11.728	10.069	16.346	14.564	12.388	10.240		CaloSetting		
pMin (GeV/c)	0.422	0.422	0.422	0.624	0.624	0.624	0.624	0.890	0.890	0.890	0.890		pMin		
1/(1-eps)	1.938	2.270	2.585	2.023	3.458	2.212	2.076	3.236	2.621	2.395	1.853		1/(1-eps)		
qvec (GeV/c)	5.065	6.251	7.356	3.419	5.278	6.358	8.100	5.457	5.956	7.665	8.540		qvec		
q' (GeV)	4.651	5.834	6.936	2.827	4.664	5.736	7.471	4.570	5.061	6.752	7.620		q'		
tmin (GeV^2)	-0.163	-0.166	-0.168	-0.321	-0.344	-0.351	-0.359	-0.661	-0.671	-0.697	-0.706		tmin		
sqrt(tmin) (GeV)	0.404	0.408	0.410	0.567	0.586	0.593	0.599	0.813	0.819	0.835	0.840		sqrt(tmin)		
CaloDist (m)	1.500	2.000	2.500	1.500	2.000	2.500	2.500	1.500	2.000	2.500	3.000		CaloDist		
DOmega (sr)	6.16E-02	3.47E-02	2.22E-02	6.16E-02	3.47E-02	2.22E-02	2.22E-02	6.16E-02	3.47E-02	2.22E-02	1.54E-02		DOmega		
Th_gg_max (rad)	1.24E-01	9.31E-02	7.45E-02	1.24E-01	9.31E-02	7.45E-02	7.45E-02	1.24E-01	9.31E-02	7.45E-02	6.20E-02		Th_gg_max		
q'_min (GeV)	4.37	5.59	6.71	2.69	4.46	5.54	7.15	4.14	4.76	6.41	7.31		q'_min		
tmax (GeV^2)	-0.69	-0.63	-0.59	-0.58	-0.72	-0.71	-0.96	-1.47	-1.24	-1.34	-1.28		tmax		
tmin-tmax (GeV^2)	0.52	0.47	0.42	0.26	0.38	0.36	0.60	0.81	0.57	0.65	0.57		tmin-tmax		
Th_calog_deg	4.86	6.09	6.69	9.47	10.89	8.29	6.63	10.62	10.27	8.95	7.38		Th_calog_deg		
Lumi (/cm^2/s)	1.86E+37	3.31E+37	5.17E+37	1.86E+37	3.31E+37	5.17E+37	5.17E+37	1.86E+37	3.31E+37	5.17E+37	7.44E+37		Lumi		
Beam Curren (muAmp)	4.9	8.8	13.7	4.9	8.8	13.7	13.7	4.9	8.8	13.7	19.8		muAmp		
d4sig(0deg) nb/GeV^4	8.21E-02	3.64E-02	1.92E-02	1.24E-03	4.47E-03	2.33E-03	2.38E-03	1.22E-03	9.95E-04	5.06E-04	5.12E-04		OBSOLETE		
d4sig(180) nb/GeV^4	1.44E-02	7.80E-03	4.69E-03	4.07E-03	1.73E-03	1.01E-03	1.06E-03	5.60E-04	4.68E-04	2.78E-04	2.95E-04		d4sig(180)		
Days	3.00	2	1	5	4	4	7	13	16	13	20		Days		
Charge Coulomb	1.3	1.5	1.2	2.1	3.0	4.7	8.3	5.6	12.1	15.4	34.2		Coulomb		
Jacob_e GeV	1.95	3.14	4.52	2.13	7.00	4.18	4.64	8.45	6.70	7.24	5.01		Jacob_e		
counts in DeltaT bin	4.18E+04	5.55E+04	4.61E+04	3.24E+03	4.75E+04	1.75E+04	4.01E+04	2.96E+04	3.68E+04	3.09E+04	3.77E+04		counts in DeltaT bin		
Total Beam Time	Hall A Total = 88 PAC Days											Total Beam Time			

DVCS-3 Kinematics,
Last update 19-Feb-2016
C.Hyde